

AMENDMENT TO THE CLAIMS

Please amend Claim 31 as indicated.

Claims 1-19 (previously cancelled).

Claims 20-27 (previously nonelected).

Claims 28-30 (previously cancelled).

Claim 31 (previously added, currently amended): A method of identifying an organic or an inorganic molecule that binds specifically to a site on a MN protein, to which vertebrate cells adhere in a cell adhesion assay, comprising testing organic and or inorganic molecules in a cell adhesion assay, comprising:

(a) allowing said MN protein to bind to a substrate, to which cells do not bind;

(b) rinsing unbound MN protein from said substrate;

(c) incubating said bound MN protein with said organic or inorganic molecules, and with said vertebrate cells;

(d) rinsing unbound vertebrate cells from said MN protein; and

(e) identifying molecules that inhibit the adhesion of said vertebrate cells to said MN protein as specifically binding to said site;

wherein said MN protein is encoded by a nucleic acid whose nucleotide sequence is selected from the group consisting of:

(1) SEQ ID NO: 1;

(2) nucleotide sequences that (hybridize specifically)
^{112. 2nd} under (stringent hybridization) conditions to the ^{full} complement of SEQ
ID NO: 1; and

(3) nucleotide sequences that differ from (SEQ ID NO: 1
or from the nucleotide sequences of (2) in codon sequence due to
the degeneracy of the genetic code.) ^{WD}

Claim 32 (previously added) The method of Claim 31
wherein said molecule is organic.

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Claim 33 (previously added) The method of Claim 31
wherein said molecule is inorganic.

Claim 34 (previously added) The method of Claim 32
wherein said molecule is a protein or a polypeptide

Claim 35 (previously added) The method of Claim 34
wherein said protein or polypeptide comprises an amino acid
sequence selected from the group consisting of SEQ ID NOS: 107,
108, 109, 137 and 138.

Claim 36 (previously added) The method of Claim 32
wherein said polypeptide is selected from the group consisting of
SEQ ID NOS: 107, 108, 109, 137 an 138.

Claim 37 (previously added) The method of Claim 31 wherein said organic or inorganic molecule, when in contact with a vertebrate preneoplastic or neoplastic cell that abnormally expresses MN protein, inhibits the growth of said cell.

Claim 38 (previously added) The method of Claim 31 wherein the site on the MN protein to which said vertebrate cells adhere in said cell adhesion assay is within the proteoglycan-like domain or within the carbonic anhydrase domain of the MN protein.

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Claim 39 (previously added) The method of Claim 31 wherein the site on the MN protein comprises an amino acid sequence selected from the group consisting of SQ ID NOS: 10 and 97-106.

Claim 40 (previously added) The method of Claim 31 wherein the site on the MN protein comprises an amino acid sequence selected from the group consisting of SEQ ID NOS: 10 and 97-106.

Claim 41 (previously added) The method of Claim 31 wherein said vertebrate cells are mammalian cells.

Claim 42 (previously added) The method of Claim 31 wherein said vertebrate cells are human cells.

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Claims 43 and 44 (previously added and previously
nonelected).
